STENT WITH INCREASED LONGITUDINAL FLEXIBILITY AND SCAFFOLDING

ABSTRACT OF THE DISCLOSURE

The present invention relates to a stent manufactured from a thin-walled tube of surgical implant quality. The stent comprises a plurality of main circumferential rings, a plurality of longitudinal links and a plurality of intermediate circumferential rings. The main circumferential rings are longitudinally spaced apart along a longitudinal axis. Circumferential gaps are formed between adjacent main circumferential rings. The longitudinal links span the gaps and are attached to adjacent main circumferential rings. The intermediate circumferential rings fill in the circumferential gaps and are attached to the longitudinal links. The present invention thereby provides a stent with adequate radial strength to properly deploy, adequate scaffolding affect to properly support vessel walls and increased longitudinal flexibility to easily maneuver through tortuous vessels.